



Reliability & Communication Testing Instruments

**KING DESIGN INDUSTRIAL CO., LTD.**

**RELIABILITY TEST LABORATORY**

5F, No. 3, Lane 270, Pei Shen Road Sec. 3,

<http://www.kdi.tw>

Shen Keng Dist., New Taipei City, 222, Taiwan, R.O.C

<http://www.vibration.com.tw>

TEL: 886-2-2662-5100 FAX: 886-2-2662-3094

E-mail: [service@kdi.tw](mailto:service@kdi.tw)

### TESTING / INSPECTION REPORT

REPORT NO : ST-120629-3

COMPANY : AAEON Technology Inc.

ADDRESS : 5F, No.135, Lane 235, Pao Chiao Rd.

Hsin-Tien City, Taipei, Taiwan, R. O. C.

TEL : 886-2-8919-1234

FAX : 886-2-8919-1049

SPECIMEN : ACD-521D




DATE OF RECEIVED : 2012/06/29

DATE OF TESTED : 2012/06/29

TEST / INSPECTION ITEMS : Shock Test

#### REMARKS :

- The laboratory is accredited by ISO/IEC 17025 General Requirements for the Competence of Calibration and Testing Laboratory.
- The results only apply to the device under test.
- This report is 10 pages, and no part of it may be abstracted or reproduced.

Test Engineer : 	Laboratory Head : 
Approval Signatory : 	2012.7.20 David Lee Hsin-Tien City



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## TESTING / INSPECTION REPORT

### TESTING EQUIPMENT :

1. Vibration Tester : KING DESIGN KD-9363EM-600F2K-50N120,  
S/N : KDS11054986
2. Controller : DACTRON Front-End Box, S/N:4529465
3. Control Accelerometer : Wilcoxon Research WR-777, S/N:4208

### TEST ENVIRONMENT :

Temperature : 22.2°C (25±10°C)  
Relative Humidity : 56%RH (50±25% RH)

### SPECIMEN :

Model : ACD-521D  
Quantity : 1 unit

### TEST SPECIFICATION :

#### *As per applicant's requirement*

Wave Form : Half sine wave (Operating)  
Acceleration : 10 g  
Duration Time : 11 mS  
No. of Shock : Each axis 3 times  
Shock Direction : ±X, ±Y, ±Z axis

### TEST RESULT :

Describe	PASS	FAIL	Non-Judgment
Function judgment <sup>(1)</sup>	√	---	---
Appearance check <sup>(2)</sup>	√	---	---

(1)—Booting function was normal after the test.  
(2)—No visible damages were found.







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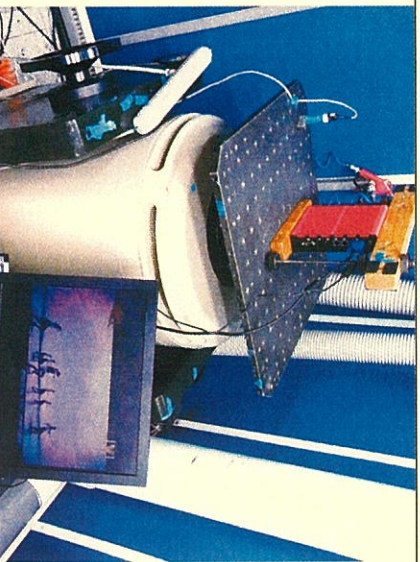
TEL: 886-2-2662-5100 FAX: 886-2-2662-3094

E-mail: [service@kdi.tw](mailto:service@kdi.tw)

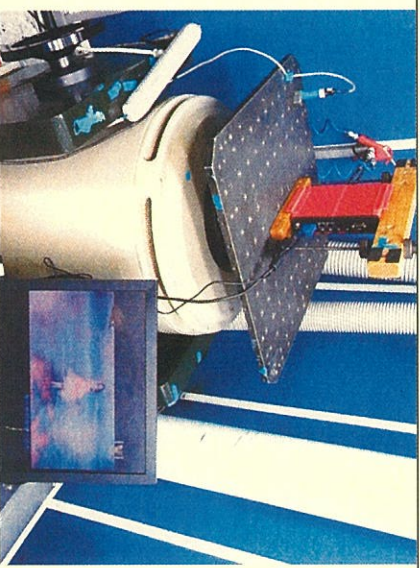
## TESTING / INSPECTION REPORT

### Testing photos

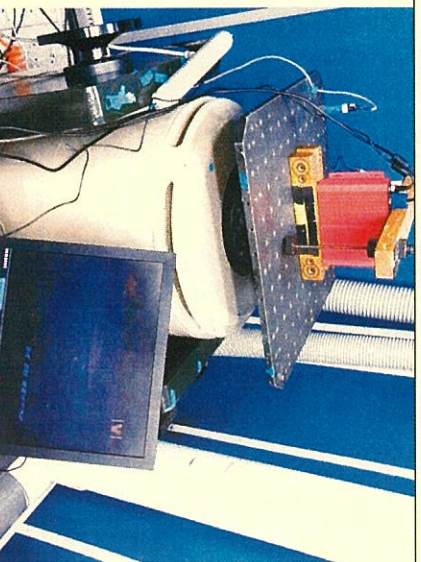
AXIS +X



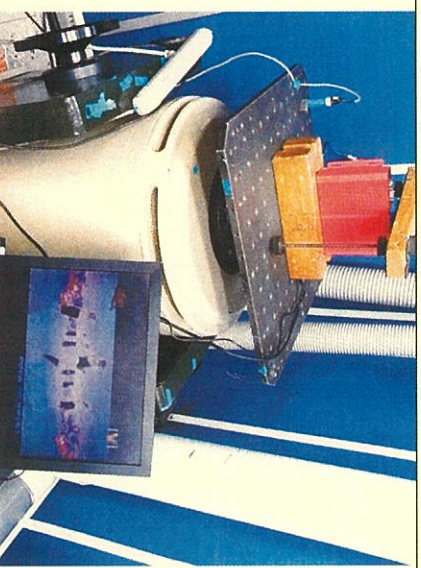
AXIS -X



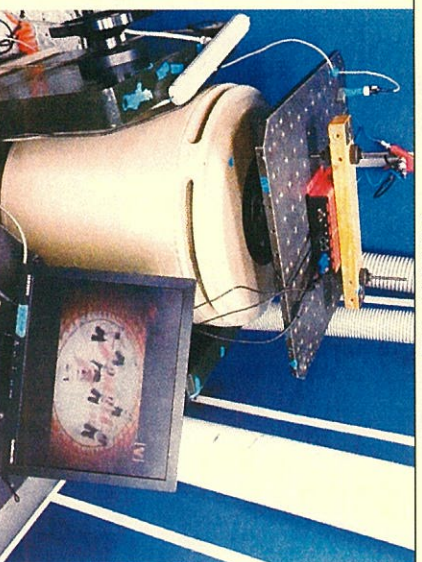
AXIS +Y



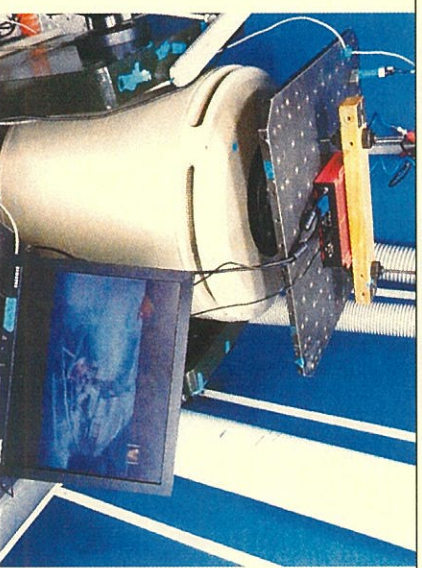
AXIS -Y



AXIS +Z



AXIS -Z







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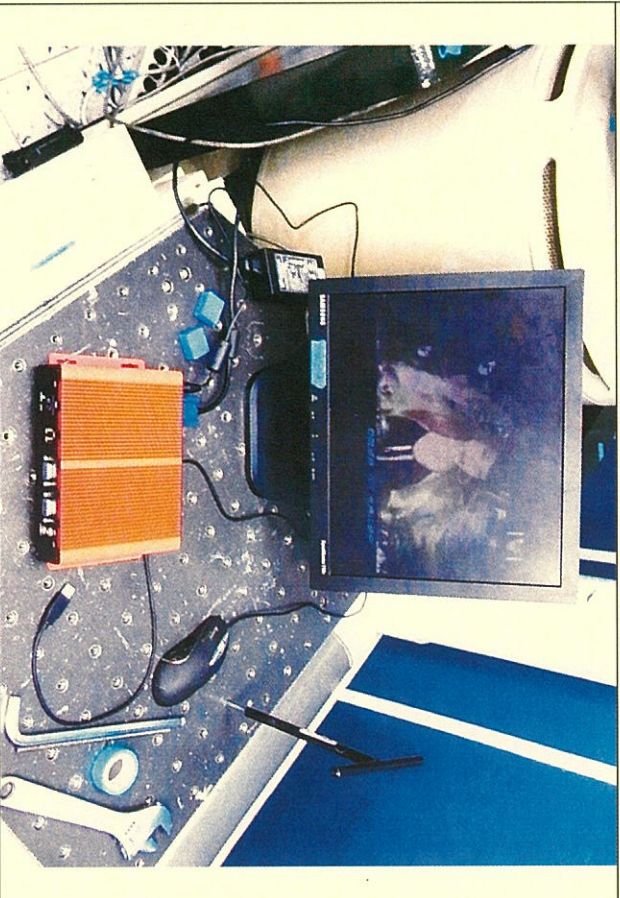
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## TESTING / INSPECTION REPORT

### Testing photos

After test

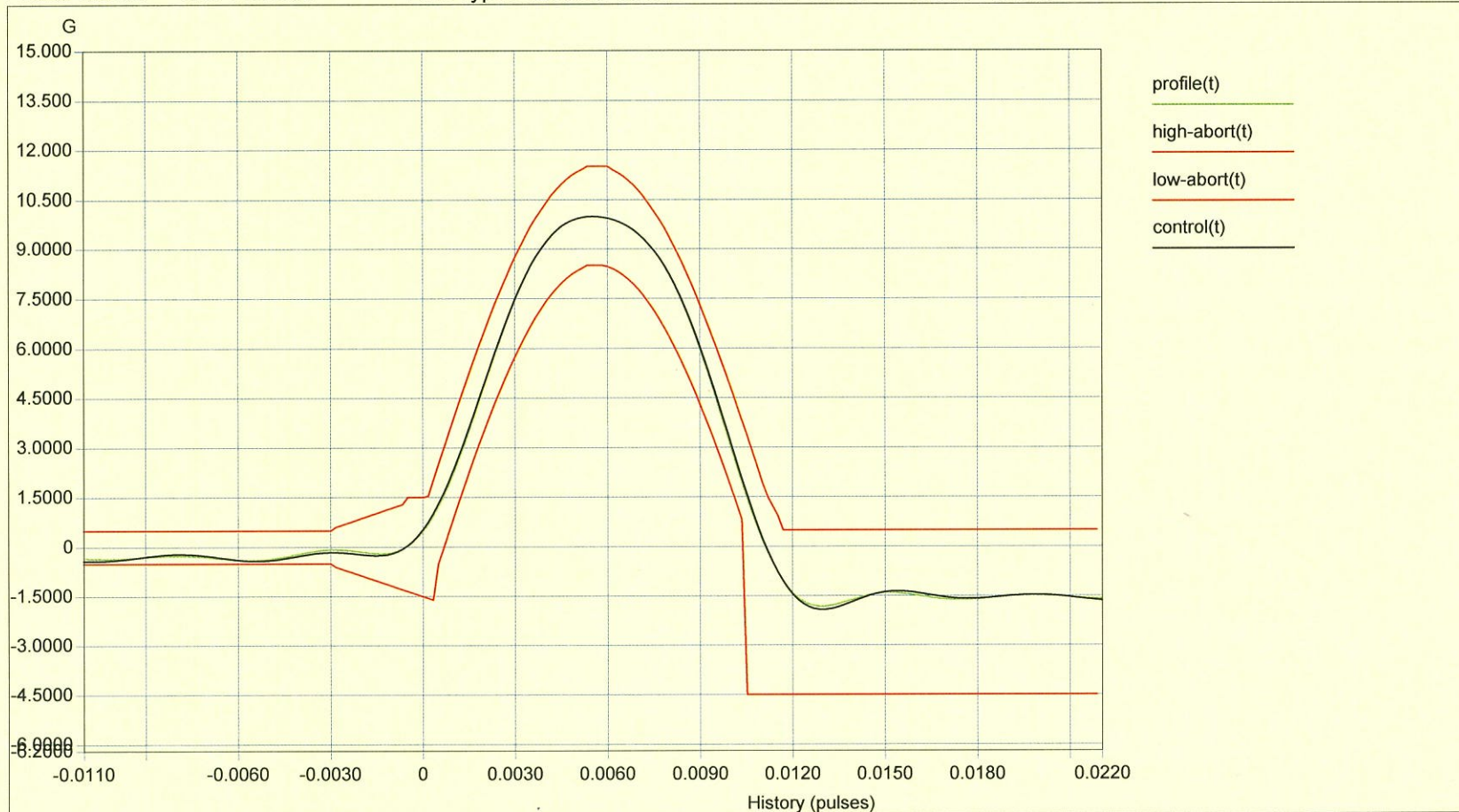




+X Axis

Project File Name: 10g 11mS.prj

Profile Name: 10G 11mSec Test Type: Classical Shock Run Folder: .\Run Jun 29,2012 13-42-43



Level: 100 % Block Size: 4096 Elapsed Pulses: 12  
 Frame Time: 0.682667 Seconds Control Peak: 9.991506 G Control RMS: 1.021369 G Full Level Elapsed Pulses: 3  
 dT: 0.000167 Seconds Demand Peak: 10.000000 G Demand RMS: 1.012083 G Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 10.000000 G Pulse Width: 11.000001 ms



-X Axis

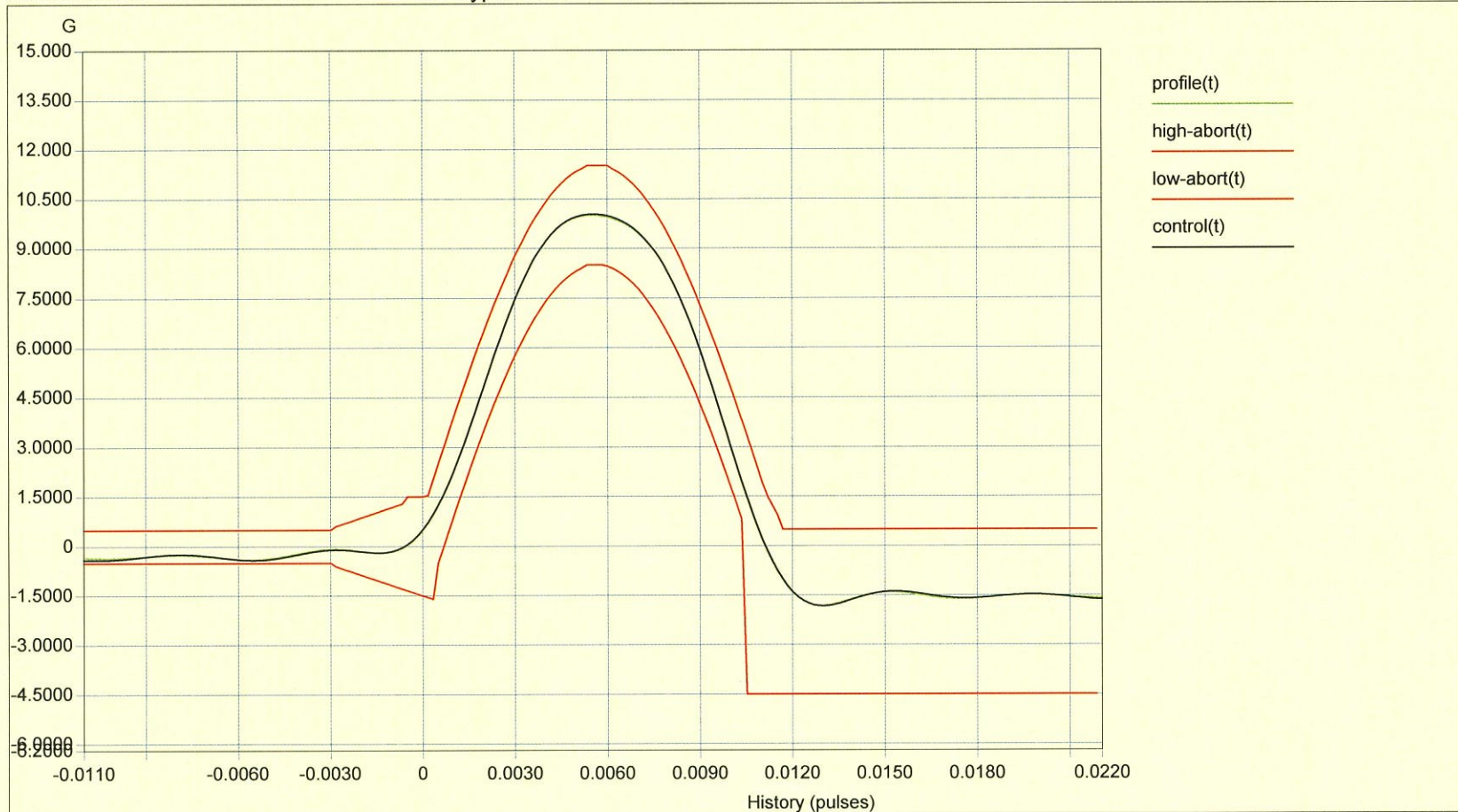
Project File Name: 10g 11mS.prj

Profile Name: 10G 11mSec

Test Type: Classical Shock

Run Folder: .\Run

Jun 29,2012 13-40-46



Level: 100 %      Block Size: 4096      Elapsed Pulses: 12  
 Frame Time: 0.682667 Seconds      Control Peak: 10.040257 G      Control RMS: 1.020456 G      Full Level Elapsed Pulses: 3  
 dT: 0.000167 Seconds      Demand Peak: 10.000000 G      Demand RMS: 1.012083 G      Remaining Pulses: 0  
 Pulse Type: Half Sine      Amplitude: 10.000000 G      Pulse Width: 11.000001 ms





+Y Axis

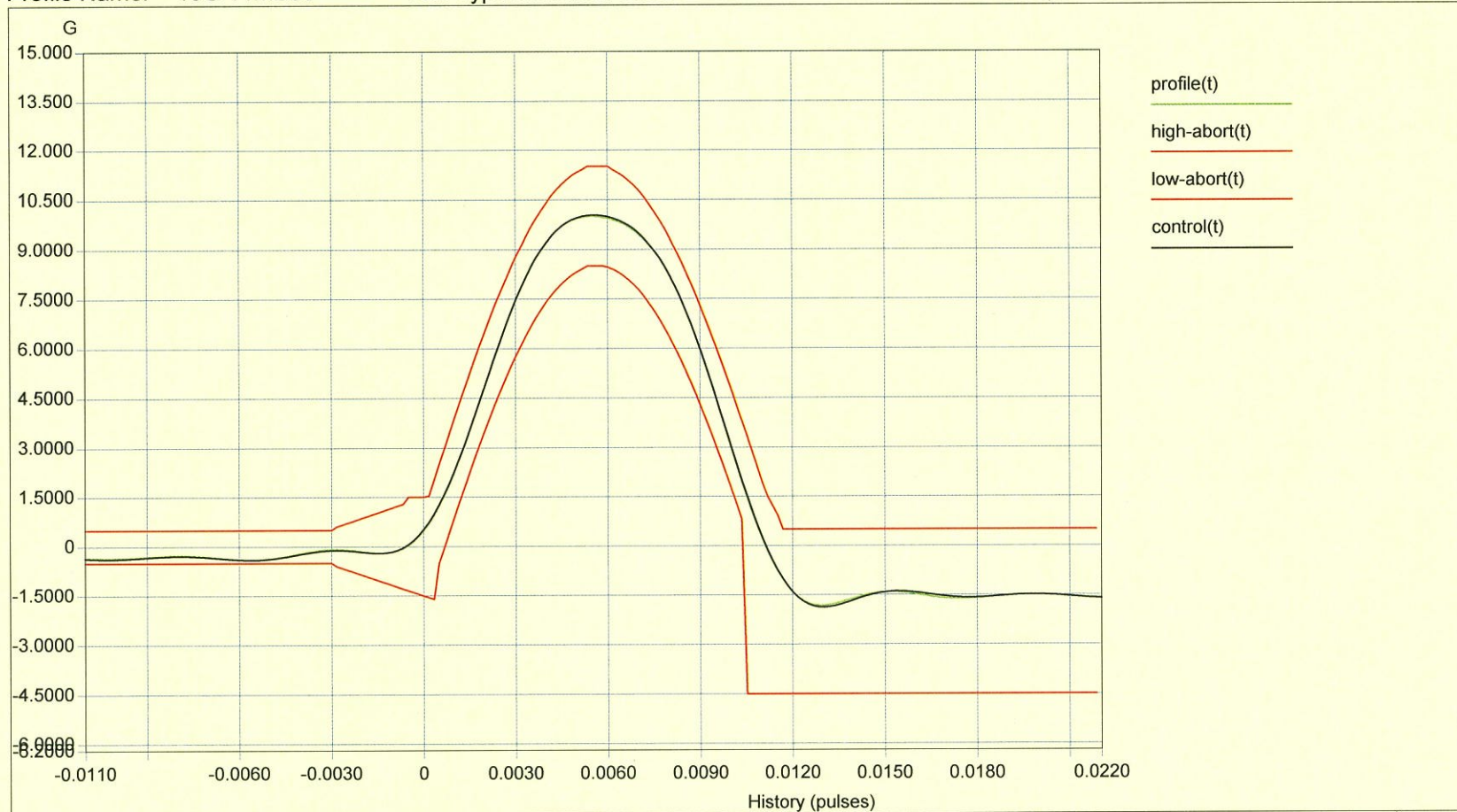
Project File Name: 10g 11mS.prj

Profile Name: 10G 11mSec

Test Type: Classical Shock

Run Folder: .\Run

Jun 29,2012 13-49-30



Level: 100 %      Block Size: 4096      Elapsed Pulses: 12  
 Frame Time: 0.682667 Seconds      Control Peak: 10.044632 G      Control RMS: 1.021524 G      Full Level Elapsed Pulses: 3  
 dT: 0.000167 Seconds      Demand Peak: 10.000000 G      Demand RMS: 1.012083 G      Remaining Pulses: 0  
 Pulse Type: Half Sine      Amplitude: 10.000000 G      Pulse Width: 11.000001 ms



-Y Axis

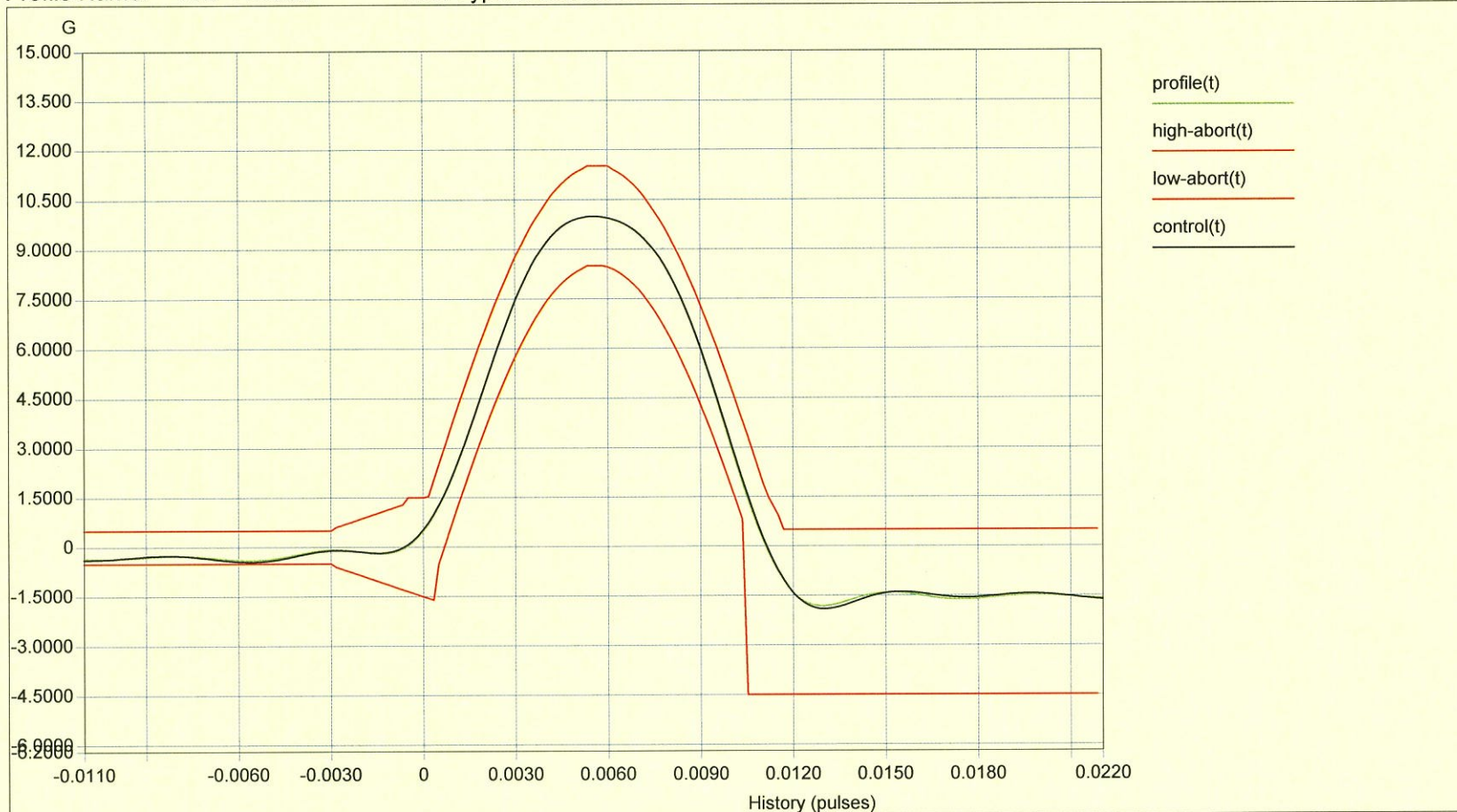
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Profile Name: 10G 11mSec

Test Type: Classical Shock

Run Folder: .\Run

Jun 29,2012 13-47-18



Level: 100 % Block Size: 4096 Elapsed Pulses: 12

Frame Time: 0.682667 Seconds Control Peak: 10.001968 G Control RMS: 1.020594 G Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 10.000000 G Demand RMS: 1.012083 G Remaining Pulses: 0

Pulse Type: Half Sine Amplitude: 10.000000 G Pulse Width: 11.000001 ms





+Z Axis

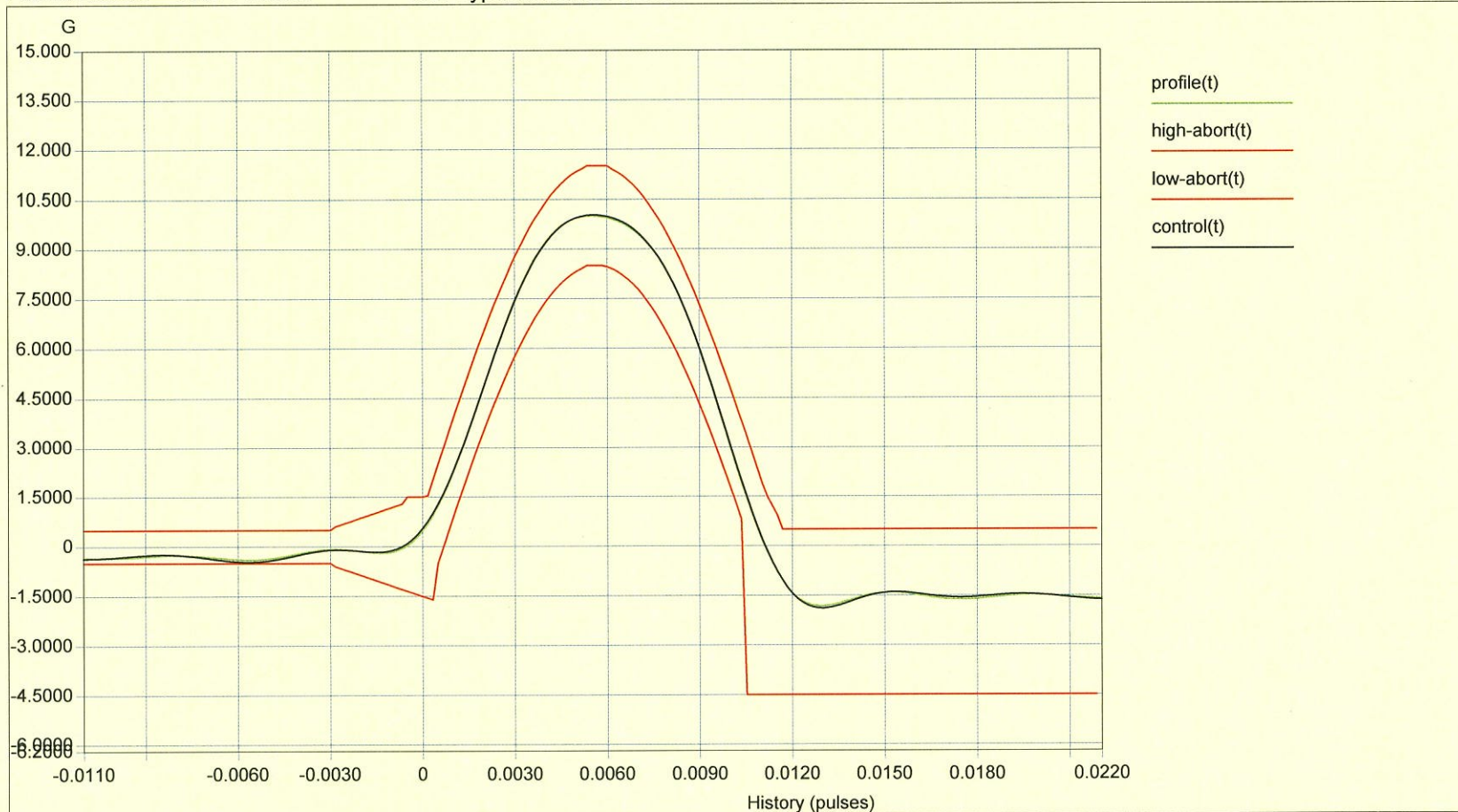
Project File Name: 10g 11mS.prj

Profile Name: 10G 11mSec

Test Type: Classical Shock

Run Folder: .\Run

Jun 29,2012 13-54-05



Level: 100 %

Block Size: 4096

Elapsed Pulses: 12

Frame Time: 0.682667 Seconds

Control Peak: 10.035141 G

Control RMS: 1.020717 G

Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds

Demand Peak: 10.000000 G

Demand RMS: 1.012083 G

Remaining Pulses: 0

Pulse Type: Half Sine

Amplitude: 10.000000 G

Pulse Width: 11.000001 ms







-Z Axis

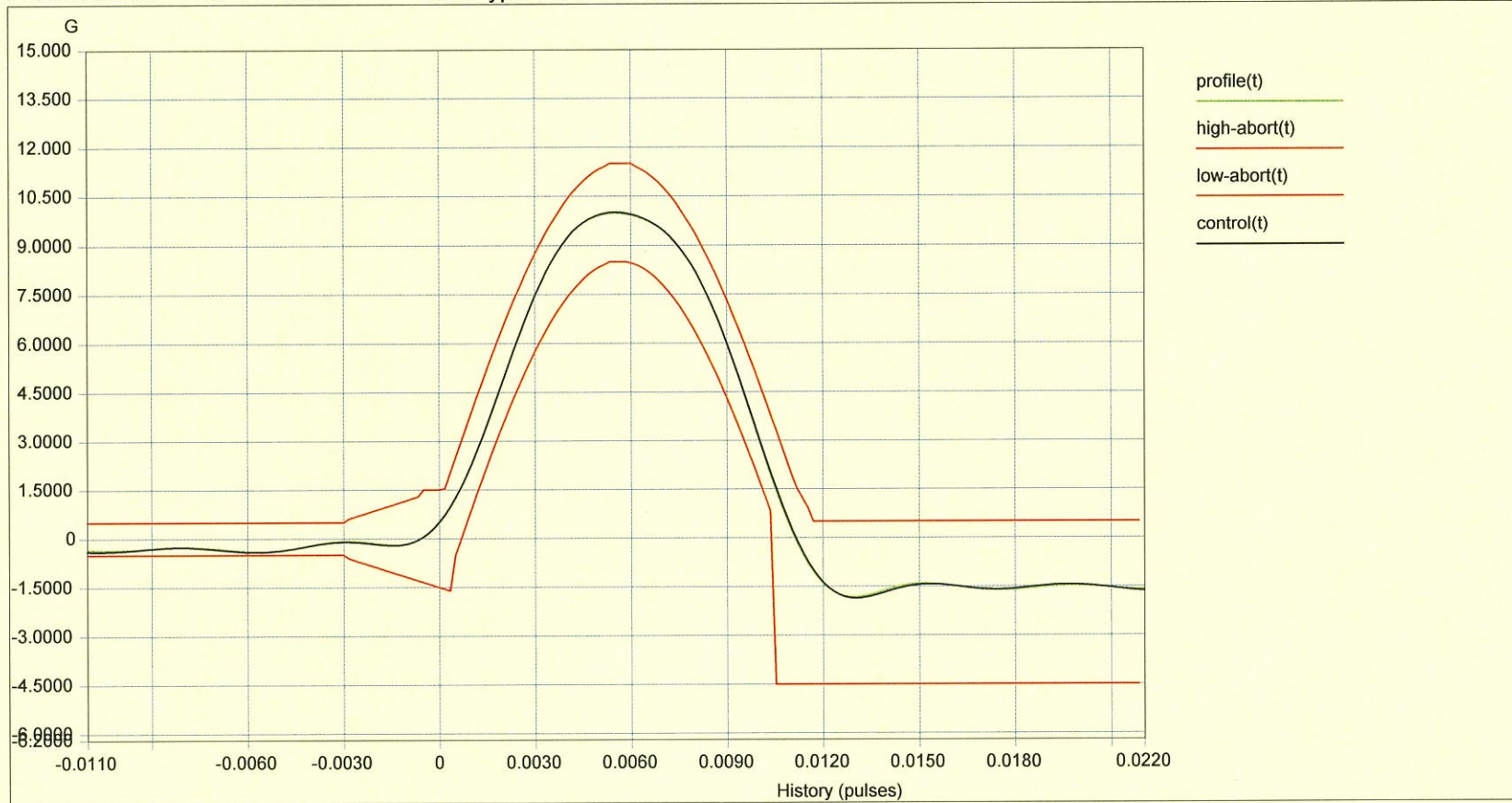
Project File Name: 10g 11mS.prj

Profile Name: 10G 11mSec

Test Type: Classical Shock

Run Folder: .\Run

Jun 29,2012 13-51-36



Level: 100 % Block Size: 4096 Elapsed Pulses: 12

Frame Time: 0.682667 Seconds Control Peak: 10.031999 G Control RMS: 1.021025 G Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds Demand Peak: 10.000000 G Demand RMS: 1.012083 G Remaining Pulses: 0

Pulse Type: Half Sine Amplitude: 10.000000 G Pulse Width: 11.000001 ms

**-END-**







Certificate No. : EA424-110728

財團法人全國認證基金會  
Taiwan Accreditation Foundation

## Certificate of Accreditation

This is to certify that

**King Design Industrial Co., Ltd.**  
**Vibration Laboratory**

4F., No.3, Ln. 270, Sec. 3, Beishen Rd., Shenkeng Dist., New Taipei City 22206, Taiwan  
(R.O.C.)

**is accredited in respect of laboratory**

**Accreditation Criteria** : ISO/IEC 17025:2005

**Accreditation Number** : 0424

**Originally Accredited** : May 01, 1998

**Effective Period** : July 28, 2011 to July 27, 2014

**Accredited Scope** : Testing Field, see described in the Appendix

Jay-San Chen  
President, Taiwan Accreditation Foundation  
Date : July 28, 2011

p1, total 4 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix.





Certificate No. : L0424-110728

財團法人全國認證基金會  
Taiwan Accreditation Foundation

Accreditation Number : 0424

Laboratory Head : CHANG Hsin Tai

▶ 16.99 Machine and Equipment  
Vibration Tester  
A002 Vibration  
CNS 3629  
CNS 5424  
Frequency:5 Hz to 3000 Hz  
Acceleration:(0 to 100) Gpk

Approval Signatory: LEE, David;CHANG Hsin Tai

▶ 16.99 Machine and Equipment  
Shock Test Equipment  
A002 Vibration  
IEST-RP-DTE 012.1  
Shock Acceleration  
Max. G:250 Gpk  
Time Duration:0.1 ms to 50 ms

Approval Signatory: LEE, David;CHANG Hsin Tai

▶ 19.01 Electronic and Electric  
Electrical Machine & Equipment  
Electronic Device  
A002 Vibration  
CNS 5424  
CNS 3629  
IEC 60068-2-35 : 1973  
Frequency:5 Hz to 2000 Hz  
Acceleration:(0 to 50) Gpk

Approval Signatory: LEE, David;CHANG Hsin Tai





Certificate No. : 10424-110728

財團法人全國認證基金會  
Taiwan Accreditation Foundation

▶ 19.01 Electronic and Electric  
Electrical Machine & Equipment  
Electronic Device  
A002 Vibration  
IEC 60068-2-27  
Acceleration: 5 Gpk to 200 Gpk  
Time Duration: 2 ms to 16 ms

Approval Signatory: LEE, David;CHANG, Hsin Tai

▶ 19.99 Electronic and Electric  
Electric & Electronic Products  
E003 Environmental Reliability  
IEC 60068-2-1  
Temperature Range:  $\geq -25$  °C

Approval Signatory: LEE, David;CHANG, Hsin Tai

▶ 19.99 Electronic and Electric  
Electric & Electronic Products  
E003 Environmental Reliability  
IEC 60068-2-2  
Temperature Range:  $\leq 100$  °C

Approval Signatory: LEE, David;CHANG, Hsin Tai

▶ 19.99 Electronic and Electric  
Electric & Electronic Products  
E003 Environmental Reliability  
IEC 60068-2-30  
Temperature Range: 40 °C to 120 °C  
Temperature Change Rate: rise 2 °C/min • fall 1 °C/min

Approval Signatory: LEE, David;CHANG, Hsin Tai

E003 Environmental Reliability  
IEC 60068-2-38  
Temperature Range: 40 °C to 120 °C

P3, total 4 pages





Certificate No. : LU1424-110728

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**Taiwan Accreditation Foundation**

Humidity Range:15 %RH to 95 %RH  
Temperature Change Rate:rise 2 °C/min , fall 1 °C/min

Approval Signatory: LEE, David;CHANG Hsin Tai

E003 Environmental Reliability  
MIL-STD-810F/Method501.4 , 502.4 , 503.4 , 514.5(Procedure I , III , IV) ,  
516.5(Procedure I , II , III , IV , V , VI , VII)  
Temperature Range:-40 °C to 120 °C  
Temperature Change Rate:rise 2 °C/min , fall 1 °C/min  
Frequency:3 Hz to 2000 Hz  
Displacement:(0 to 4) mm (peak to peak)  
Acceleration:(0 to 10) Gpk

Approval Signatory: LEE, David;CHANG Hsin Tai

(Null below)